

# Bin Gao

## List of Publications by Year in descending order

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Version: 2024-02-01

482  
papers

47,319  
citations

1877

105  
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2823

197  
g-index

483  
all docs

483  
docs citations

483  
times ranked

30595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of long-term zinc smelting activities on the distribution and health risk of heavy metals in agricultural soils of Guizhou province, China. <i>Environmental Geochemistry and Health</i> , 2023, 45, 5639-5654.	1.8	16
2	The anti-tumor effects of the combination of microwave hyperthermia and lobaplatin against breast cancer cells <i>in vitro</i> and <i>in vivo</i> . <i>Bioscience Reports</i> , 2022, 42, .	1.1	0
3	Quantifying the Influences of Carbides and Porosities on the Fatigue Crack Evolution of a Ni-Based Single-Crystal Superalloy using X-ray Tomography. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 133-145.	1.5	5
4	Simultaneous reclaiming phosphate and ammonium from aqueous solutions by calcium alginate-biochar composite: Sorption performance and governing mechanisms. <i>Chemical Engineering Journal</i> , 2022, 429, 132166.	6.6	69
5	Dispersion and transport of microplastics in three water-saturated coastal soils. <i>Journal of Hazardous Materials</i> , 2022, 424, 127614.	6.5	12
6	Effects of anionic hydrocarbon surfactant on the transport of perfluorooctanoic acid (PFOA) in natural soils. <i>Environmental Science and Pollution Research</i> , 2022, 29, 24672-24681.	2.7	10
7	Interactive effects of biochar amendment and lead toxicity on soil microbial community. <i>Journal of Hazardous Materials</i> , 2022, 425, 127921.	6.5	23
8	Nanobiochar-rhizosphere interactions: Implications for the remediation of heavy-metal contaminated soils. <i>Environmental Pollution</i> , 2022, 299, 118810.	3.7	38
9	Mechanochemical modification of biochar-attapulgite nanocomposites for cadmium removal: Performance and mechanisms. <i>Biochemical Engineering Journal</i> , 2022, 179, 108332.	1.8	10
10	Ibuprofen degradation by a synergism of facet-controlled MIL-88B(Fe) and persulfate under simulated visible light. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 1-12.	5.0	69
11	Occurrences and impacts of microplastics in soils and groundwater. , 2022, , 253-299.		2
12	Occurrences and impacts of engineered nanoparticles in soils and groundwater. , 2022, , 165-204.		1
13	Fate and transport of engineered nanoparticles in soils and groundwater. , 2022, , 205-251.		2
14	Fate and transport of microplastics in soils and groundwater. , 2022, , 301-329.		4
15	Occurrences and impacts of pharmaceuticals and personal care products in soils and groundwater. , 2022, , 5-47.		0
16	Stabilization of heavy metals in biochar derived from plants in antimony mining area and its environmental implications. <i>Environmental Pollution</i> , 2022, 300, 118902.	3.7	16
17	Synthesis of hickory biochar via one-step acidic ball milling: Characteristics and titan yellow adsorption. <i>Journal of Cleaner Production</i> , 2022, 338, 130575.	4.6	25
18	Treatment technologies for selenium contaminated water: A critical review. <i>Environmental Pollution</i> , 2022, 299, 118858.	3.7	25

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19	Straw and wood based biochar for CO <sub>2</sub> capture: Adsorption performance and governing mechanisms. Separation and Purification Technology, 2022, 287, 120592.	3.9	67
20	Transport of perfluorooctanoic acid in unsaturated porous media mediated by SDBS. Journal of Hydrology, 2022, 607, 127479.	2.3	9
21	Stoichiometric carbocatalysis via epoxide-like C <sup>+</sup> S <sup>+</sup> O configuration on sulfur-doped biochar for environmental remediation. Journal of Hazardous Materials, 2022, 428, 128223.	6.5	25
22	Release characteristics of phosphate from ball-milled biochar and its potential effects on plant growth. Science of the Total Environment, 2022, 821, 153256.	3.9	21
23	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. Journal of Hazardous Materials, 2022, 430, 128479.	6.5	67
24	Pyrolysis temperature and feedstock affected Cr(VI) removal capacity of sulfidated zerovalent iron: Importance of surface area and electrical conductivity. Chemosphere, 2022, 296, 133927.	4.2	10
25	Preparation of biosorbent for the removal of organic dyes from aqueous solution via one-step alkaline ball milling of hickory wood. Bioresource Technology, 2022, 348, 126831.	4.8	20
26	Recent advances in the treatment of contaminated soils by ball milling technology: Classification, mechanisms, and applications. Journal of Cleaner Production, 2022, 340, 130821.	4.6	20
27	Ball-milled bismuth oxybromide/biochar composites with enhanced removal of reactive red owing to the synergy between adsorption and photodegradation. Journal of Environmental Management, 2022, 308, 114652.	3.8	24
28	Ball-milled bismuth oxychloride/biochar nanocomposites with rich oxygen vacancies for reactive red-120 adsorption in aqueous solution. Biochar, 2022, 4, 1.	6.2	23
29	Adsorption behavior and performance of ammonium onto sorghum straw biochar from water. Scientific Reports, 2022, 12, 5358.	1.6	14
30	Phosphorus-modified biochar cross-linked Mg-Al layered double-hydroxide stabilizer reduced U and Pb uptake by Indian mustard ( <i>Brassica juncea</i> L.) in uranium contaminated soil. Ecotoxicology and Environmental Safety, 2022, 234, 113363.	2.9	12
31	Quantifying the Effects of Grain Refiners Al-Ti-B and La on the Microstructure and Mechanical Properties of W319 Alloy. Metals, 2022, 12, 627.	1.0	10
32	Effective Sb(V) removal from aqueous solution using phosphogypsum-modified biochar. Environmental Pollution, 2022, 301, 119032.	3.7	16
33	Microwave biochars produced with activated carbon catalyst: Characterization and sorption of volatile organic compounds (VOCs). Science of the Total Environment, 2022, 827, 153996.	3.9	40
34	Selective adsorption behavior and mechanism of phosphate in water by different lanthanum modified biochar. Journal of Environmental Chemical Engineering, 2022, 10, 107476.	3.3	24
35	Insights into Cr(VI) removal mechanism in water by facile one-step pyrolysis prepared coal gangue-biochar composite. Chemosphere, 2022, 299, 134334.	4.2	17
36	Environmental behaviors and degradation methods of microplastics in different environmental media. Chemosphere, 2022, 299, 134354.	4.2	51

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37	Biochar as a potential strategy for remediation of contaminated mining soils: Mechanisms, applications, and future perspectives. <i>Journal of Environmental Management</i> , 2022, 313, 114973.	3.8	53
38	Nano-biochar: A novel solution for sustainable agriculture and environmental remediation. <i>Environmental Research</i> , 2022, 210, 112891.	3.7	41
39	Carbon defects in biochar facilitated nitrogen doping: The significant role of pyridinic nitrogen in peroxydisulfate activation and ciprofloxacin degradation. <i>Chemical Engineering Journal</i> , 2022, 441, 135864.	6.6	86
40	Combined Effects of Fe/Al Oxyhydroxide Coating and pH on Polystyrene Nanoplastic Transport in Saturated Sand Media. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	1.1	3
41	Effects of cooling rates on microporosity in DC casting Al-Li alloy. <i>China Foundry</i> , 2022, 19, 177-190.	0.5	6
42	Microwave-assisted pyrolysis derived biochar for volatile organic compounds treatment: Characteristics and adsorption performance. <i>Bioresource Technology</i> , 2022, 355, 127274.	4.8	31
43	Synergetic effect of co-pyrolysis of sewage sludge and lignin on biochar production and adsorption of methylene blue. <i>Fuel</i> , 2022, 324, 124587.	3.4	26
44	Application of biochar immobilized microorganisms for pollutants removal from wastewater: A review. <i>Science of the Total Environment</i> , 2022, 837, 155563.	3.9	67
45	Preparation and evaluation of fine-tuned micropore biochar by lignin impregnation for CO <sub>2</sub> and VOCs adsorption. <i>Separation and Purification Technology</i> , 2022, 295, 121295.	3.9	41
46	Removal performance, mechanisms, and influencing factors of biochar for air pollutants: a critical review. <i>Biochar</i> , 2022, 4, .	6.2	32
47	Quantifying the Effects of Carbides and Pores on Fatigue Damages of Ni-Based Single Crystal Superalloys at Elevated Temperature Using X-Ray CT Scans. <i>Journal of Nondestructive Evaluation</i> , 2022, 41, .	1.1	0
48	Facile synthesis of sodium lignosulfonate/polyethyleneimine/sodium alginate beads with ultra-high adsorption capacity for Cr(VI) removal from water. <i>Journal of Hazardous Materials</i> , 2022, 436, 129270.	6.5	38
49	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
50	Waste-derived biochar for water pollution control and sustainable development. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 444-460.	12.2	233
51	Fixed bed column performance of Al-modified biochar for the removal of sulfamethoxazole and sulfapyridine antibiotics from wastewater. <i>Chemosphere</i> , 2022, 305, 135475.	4.2	23
52	Insights into the photocatalytic activation persulfate by visible light over ReS <sub>2</sub> /MIL-88B(Fe) for highly efficient degradation of ibuprofen: Combination of experimental and theoretical study. <i>Separation and Purification Technology</i> , 2022, 297, 121545.	3.9	59
53	Ball-milled Bi <sub>2</sub> MoO <sub>6</sub> /biochar composites for synergistic adsorption and photodegradation of methylene blue: Kinetics and mechanisms. <i>Industrial Crops and Products</i> , 2022, 186, 115229.	2.5	24
54	Enhanced removal of Cd <sup>2+</sup> from water by AHP-pretreated biochar: Adsorption performance and mechanism. <i>Journal of Hazardous Materials</i> , 2022, 438, 129467.	6.5	50

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55	CeO <sub>2</sub> nanosheets with anion-induced oxygen vacancies for promoting photocatalytic toluene mineralization: Toluene adsorption and reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121694.	10.8	46
56	Visible-light-assisted persulfate activation by SnS <sub>2</sub> /MIL-88B(Fe) Z-scheme heterojunction for enhanced degradation of ibuprofen. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 965-977.	5.0	60
57	The effect of biochar on the migration theory of nutrient ions. <i>Science of the Total Environment</i> , 2022, 845, 157262.	3.9	6
58	Effect of ball milling with hydrogen peroxide or ammonia hydroxide on sorption performance of volatile organic compounds by biochar from different pyrolysis temperatures. <i>Chemical Engineering Journal</i> , 2022, 450, 138027.	6.6	25
59	Ball milling biochar with ammonia hydroxide or hydrogen peroxide enhances its adsorption of phenyl volatile organic compounds (VOCs). <i>Journal of Hazardous Materials</i> , 2021, 403, 123540.	6.5	89
60	Characterization of residues from non-woody pulping process and its function as fertilizer. <i>Chemosphere</i> , 2021, 262, 127906.	4.2	7
61	Invasive plants as potential sustainable feedstocks for biochar production and multiple applications: A review. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105204.	5.3	80
62	Novel environment-friendly superhydrophobic bio-based polymer derived from liquefied corncob for controlled-released fertilizer. <i>Progress in Organic Coatings</i> , 2021, 151, 106018.	1.9	16
63	Facile ball-milling synthesis of CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> Z-scheme heterojunction for synergistic adsorption and photodegradation of methylene blue: Characteristics, kinetics, models, and mechanisms. <i>Chemical Engineering Journal</i> , 2021, 420, 127719.	6.6	148
64	Effects of ionic strength and cation type on the transport of perfluorooctanoic acid (PFOA) in unsaturated sand porous media. <i>Journal of Hazardous Materials</i> , 2021, 403, 123688.	6.5	44
65	Degradation of anthraquinone dye reactive blue 19 using persulfate activated with Fe/Mn modified biochar: Radical/non-radical mechanisms and fixed-bed reactor study. <i>Science of the Total Environment</i> , 2021, 758, 143584.	3.9	70
66	Environmental-friendly coal gangue-biochar composites reclaiming phosphate from water as a slow-release fertilizer. <i>Science of the Total Environment</i> , 2021, 758, 143664.	3.9	97
67	Sorption of reactive red by biochars ball milled in different atmospheres: Co-effect of surface morphology and functional groups. <i>Chemical Engineering Journal</i> , 2021, 413, 127468.	6.6	23
68	Slow-released bio-organic chemical fertilizer improved tomato growth: synthesis and pot evaluations. <i>Journal of Soils and Sediments</i> , 2021, 21, 319-327.	1.5	6
69	Immobilization of heavy metals (Cd, Zn, and Pb) in different contaminated soils with swine manure biochar. <i>Environmental Pollutants and Bioavailability</i> , 2021, 33, 55-65.	1.3	42
70	Biochar improves soil physical characteristics and strengthens root architecture in Muscadine grape ( <i>Vitis rotundifolia</i> L.). <i>Chemical and Biological Technologies in Agriculture</i> , 2021, 8, .	1.9	33
71	Changes in surface characteristics and adsorption properties of 2,4,6-trichlorophenol following Fenton-like aging of biochar. <i>Scientific Reports</i> , 2021, 11, 4293.	1.6	17
72	Greenhouse Evaluation of Pinewood Biochar Effects on Nutrient Status and Physiological Performance in Muscadine Grape ( <i>Vitis rotundifolia</i> L.). <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2021, 56, 277-285.	0.5	3

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73	Adsorption of emerging contaminants from water and wastewater by modified biochar: A review. <i>Environmental Pollution</i> , 2021, 273, 116448.	3.7	382
74	Technology of Acid Soil Improvement with Biochar: A Review. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 692, 042098.	0.2	0
75	Formation and mechanisms of nano-metal oxide-biochar composites for pollutants removal: A review. <i>Science of the Total Environment</i> , 2021, 767, 145305.	3.9	89
76	Modified nanoscale zero-valent iron in persulfate activation for organic pollution remediation: a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 34229-34247.	2.7	37
77	Nano-soy-protein microcapsule-enabled self-healing biopolyurethane-coated controlled-release fertilizer: preparation, performance, and mechanism. <i>Materials Today Chemistry</i> , 2021, 20, 100413.	1.7	13
78	Effect of root exudates on the stability and transport of graphene oxide in saturated porous media. <i>Journal of Hazardous Materials</i> , 2021, 413, 125362.	6.5	11
79	Physicochemical disintegration of biochar: a potentially important process for long-term cadmium and lead sorption. <i>Biochar</i> , 2021, 3, 511-518.	6.2	5
80	Ball milling biochar iron oxide composites for the removal of chromium (Cr(VI)) from water: Performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2021, 413, 125252.	6.5	135
81	Quantifying the effects of Sn on $\text{Al}^{2+}$ -Cu precipitation kinetics in Al-Cu alloys. <i>Materials Science and Technology</i> , 2021, 37, 979-992.	0.8	6
82	P-enriched hydrochar for soil remediation: Synthesis, characterization, and lead stabilization. <i>Science of the Total Environment</i> , 2021, 783, 146983.	3.9	18
83	Adsorption and interaction mechanism of uranium (VI) from aqueous solutions on phosphate-impregnation biochar cross-linked Mg Al layered double-hydroxide composite. <i>Applied Clay Science</i> , 2021, 209, 106146.	2.6	60
84	Adsorptional-photocatalytic removal of fast sulphon black dye by using chitin-cl-poly(itaconic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 2021, 416, 125714.	6.5	102
85	ZnO/biochar nanocomposites via solvent free ball milling for enhanced adsorption and photocatalytic degradation of methylene blue. <i>Journal of Hazardous Materials</i> , 2021, 415, 125511.	6.5	149
86	Migration and transformation of chromium in unsaturated soil during groundwater table fluctuations induced by rainfall. <i>Journal of Hazardous Materials</i> , 2021, 416, 126229.	6.5	10
87	Transport characteristics of fragmental polyethylene glycol terephthalate (PET) microplastics in porous media under various chemical conditions. <i>Chemosphere</i> , 2021, 276, 130214.	4.2	60
88	Electrochemical adsorption of perfluorooctanoic acid on a novel reduced graphene oxide aerogel loaded with Cu nanoparticles and fluorine. <i>Journal of Hazardous Materials</i> , 2021, 416, 125866.	6.5	18
89	Double Coating as a Novel Technology for Controlling Urea Dissolution in Soil: A Step toward Improving the Sustainability of Nitrogen Fertilization Approaches. <i>Sustainability</i> , 2021, 13, 10707.	1.6	0
90	Production of activated biochar via a self-blowing strategy-supported sulfidated nanoscale zerovalent iron with enhanced reactivity and stability for Cr(VI) reduction. <i>Journal of Cleaner Production</i> , 2021, 315, 128108.	4.6	39

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91	Biochar modulates mineral nitrogen dynamics in soil and terrestrial ecosystems: A critical review. <i>Chemosphere</i> , 2021, 278, 130378.	4.2	42
92	Review on upgrading organic waste to value-added carbon materials for energy and environmental applications. <i>Journal of Environmental Management</i> , 2021, 296, 113128.	3.8	45
93	Mechanisms and adsorption capacities of hydrogen peroxide modified ball milled biochar for the removal of methylene blue from aqueous solutions. <i>Bioresource Technology</i> , 2021, 337, 125432.	4.8	99
94	Preparation of ammonium-modified cassava waste-derived biochar and its evaluation for synergistic adsorption of ternary antibiotics from aqueous solution. <i>Journal of Environmental Management</i> , 2021, 298, 113530.	3.8	26
95	Investigations of Cr(VI) removal by millet bran biochar modified with inorganic compounds: Momentous role of additional lactate. <i>Science of the Total Environment</i> , 2021, 793, 148098.	3.9	27
96	Co-adsorption performance and mechanism of nitrogen and phosphorus onto eupatorium adenophorum biochar in water. <i>Bioresource Technology</i> , 2021, 340, 125696.	4.8	55
97	Hydrothermal carbonization of distillers grains with clay minerals for enhanced adsorption of phosphate and methylene blue. <i>Bioresource Technology</i> , 2021, 340, 125725.	4.8	39
98	Mesoporous ball-milling iron-loaded biochar for enhanced sorption of reactive red: Performance and mechanisms. <i>Environmental Pollution</i> , 2021, 290, 117992.	3.7	21
99	Microplastic pollution in soils and groundwater: Characteristics, analytical methods and impacts. <i>Chemical Engineering Journal</i> , 2021, 425, 131870.	6.6	73
100	Fabrication and environmental applications of metal-containing solid waste/biochar composites: A review. <i>Science of the Total Environment</i> , 2021, 799, 149295.	3.9	37
101	Nanoparticles and Their Impacts on Seed Germination. <i>Nanotechnology in the Life Sciences</i> , 2021, , 21-31.	0.4	2
102	Gas-phase solid phase flow synthesis of Cu-Co-1,3,5-benzenetricarboxylate for electrocatalytic oxygen evolution. <i>Chemical Communications</i> , 2021, 57, 12297-12300.	2.2	8
103	Physical separation of catalytic oxidation and reduction sites onto photocatalyst assisted by surface functional groups for enhanced hydrogen evolution. <i>Journal of Cleaner Production</i> , 2021, 324, 129259.	4.6	8
104	Potential management practices of saltwater intrusion impacts on soil health and water quality: a review. <i>Journal of Water and Climate Change</i> , 2021, 12, 1327-1343.	1.2	6
105	Real-Time Trajectory Planning for On-road Autonomous Tractor-Trailer Vehicles. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2021, 26, 722-730.	0.5	4
106	Collision-Free Path Planning with Kinematic Constraints in Urban Scenarios. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2021, 26, 731-738.	0.5	1
107	Porous biochar supported Ag <sub>3</sub> PO <sub>4</sub> photocatalyst for "two-in-one" synergistic adsorptive-photocatalytic removal of methylene blue under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106753.	3.3	14
108	Fuel properties and combustion kinetics of hydrochar derived from co-hydrothermal carbonization of tobacco residues and graphene oxide. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 189-201.	2.9	32

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109	Thiol-modified biochar synthesized by a facile ball-milling method for enhanced sorption of inorganic Hg <sup>2+</sup> and organic CH <sub>3</sub> Hg <sup>+</sup> . <i>Journal of Hazardous Materials</i> , 2020, 384, 121357.	6.5	102
110	Fulvic acid-like substance and its characteristics, an innovative waste recycling material from pulp black liquor. <i>Journal of Cleaner Production</i> , 2020, 243, 118585.	4.6	19
111	Foamed urea-formaldehyde microspheres for removal of heavy metals from aqueous solutions. <i>Chemosphere</i> , 2020, 241, 125004.	4.2	21
112	Characteristics of organo-mineral complexes in contaminated soils with long-term biochar application. <i>Journal of Hazardous Materials</i> , 2020, 384, 121265.	6.5	43
113	A critical review on remediation of bisphenol S (BPS) contaminated water: Efficacy and mechanisms. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 476-522.	6.6	56
114	Recycling supercapacitor activated carbons for adsorption of silver (I) and chromium (VI) ions from aqueous solutions. <i>Chemosphere</i> , 2020, 238, 124638.	4.2	47
115	Effects of laboratory biotic aging on the characteristics of biochar and its water-soluble organic products. <i>Journal of Hazardous Materials</i> , 2020, 382, 121071.	6.5	90
116	Phosphogypsum as a novel modifier for distillers grains biochar removal of phosphate from water. <i>Chemosphere</i> , 2020, 238, 124684.	4.2	97
117	Physical and Combustion Properties of Binder-Assisted Hydrochar Pellets from Hydrothermal Carbonization of Tobacco Stem. <i>Waste and Biomass Valorization</i> , 2020, 11, 6369-6382.	1.8	14
118	New insights into CO <sub>2</sub> sorption on biochar/Fe oxyhydroxide composites: Kinetics, mechanisms, and in situ characterization. <i>Chemical Engineering Journal</i> , 2020, 384, 123289.	6.6	28
119	MgO modified biochar produced through ball milling: A dual-functional adsorbent for removal of different contaminants. <i>Chemosphere</i> , 2020, 243, 125344.	4.2	91
120	Fire Phoenix facilitates phytoremediation of PAH-Cd co-contaminated soil through promotion of beneficial rhizosphere bacterial communities. <i>Environment International</i> , 2020, 136, 105421.	4.8	98
121	Polyethyleneimine-modified biochar for enhanced phosphate adsorption. <i>Environmental Science and Pollution Research</i> , 2020, 27, 7420-7429.	2.7	31
122	Transport of polystyrene nanoplastics in natural soils: Effect of soil properties, ionic strength and cation type. <i>Science of the Total Environment</i> , 2020, 707, 136065.	3.9	148
123	Ball milled biochar effectively removes sulfamethoxazole and sulfapyridine antibiotics from water and wastewater. <i>Environmental Pollution</i> , 2020, 258, 113809.	3.7	156
124	Removal of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) from water by carbonaceous nanomaterials: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2379-2414.	6.6	71
125	Enhanced adsorption performance and governing mechanisms of ball-milled biochar for the removal of volatile organic compounds (VOCs). <i>Chemical Engineering Journal</i> , 2020, 385, 123842.	6.6	176
126	Remediation of saline-sodic soil using organic and inorganic amendments: physical, chemical, and enzyme activity properties. <i>Journal of Soils and Sediments</i> , 2020, 20, 1454-1467.	1.5	20

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127	Retention of nano PbO in saturated columns and its dissolution kinetics in soils. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1167-1174.	2.7	2
128	Tailoring acidity and porosity of alumina catalysts via transition metal doping for glucose conversion in biorefinery. <i>Science of the Total Environment</i> , 2020, 704, 135414.	3.9	13
129	Enhanced removal of ammonium from water by ball-milled biochar. <i>Environmental Geochemistry and Health</i> , 2020, 42, 1579-1587.	1.8	44
130	Biochar/iron (BC/Fe) composites for soil and groundwater remediation: Synthesis, applications, and mechanisms. <i>Chemosphere</i> , 2020, 246, 125609.	4.2	115
131	Adsorption of acetone and cyclohexane onto CO <sub>2</sub> activated hydrochars. <i>Chemosphere</i> , 2020, 245, 125664.	4.2	43
132	Sorption behavior of dimethyl phthalate in biochar-soil composites: Implications for the transport of phthalate esters in long-term biochar amended soils. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111169.	2.9	13
133	Indole Carbonized Polymer Dots Boost Full-Color Emission by Regulating Surface State. <i>IScience</i> , 2020, 23, 101546.	1.9	17
134	Removal of aqueous Cr(VI) by Zn- and Al-modified hydrochar. <i>Chemosphere</i> , 2020, 260, 127610.	4.2	50
135	Importance of surface roughness on perfluorooctanoic acid (PFOA) transport in unsaturated porous media. <i>Environmental Pollution</i> , 2020, 266, 115343.	3.7	24
136	Comparative investigation of characteristics and phosphate removal by engineered biochars with different loadings of magnesium, aluminum, or iron. <i>Science of the Total Environment</i> , 2020, 747, 141277.	3.9	46
137	Grand Challenges in Sorption Technologies. <i>Frontiers in Environmental Chemistry</i> , 2020, 1, .	0.7	0
138	Activation of Humic Acid in Lignite Using Molybdate-Phosphorus Hierarchical Hollow Nanosphere Catalyst Oxidation: Molecular Characterization and Rice Seed Germination-Promoting Performances. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 13620-13631.	2.4	11
139	Boosting catalytic degradation efficiency by incorporation of MIL-53(Fe) with Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nanosheets. <i>Journal of Molecular Liquids</i> , 2020, 311, 113201.	2.3	31
140	Self-Assembly of Hydrophobic and Self-Healing Bionanocomposite-Coated Controlled-Release Fertilizers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27598-27606.	4.0	47
141	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. <i>Bioresource Technology</i> , 2020, 312, 123613.	4.8	293
142	Adsorption of tetracycline hydrochloride onto ball-milled biochar: Governing factors and mechanisms. <i>Chemosphere</i> , 2020, 255, 127057.	4.2	146
143	One-pot synthesis and characterization of engineered hydrochar by hydrothermal carbonization of biomass with ZnCl <sub>2</sub> . <i>Chemosphere</i> , 2020, 254, 126866.	4.2	84
144	Efficient removal of Cd(II) from aqueous solution by pinecone biochar: Sorption performance and governing mechanisms. <i>Environmental Pollution</i> , 2020, 265, 115001.	3.7	83

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145	Removal mechanisms of Cr(VI) and Cr(III) by biochar supported nanosized zero-valent iron: Synergy of adsorption, reduction and transformation. <i>Environmental Pollution</i> , 2020, 265, 115018.	3.7	142
146	Exploring the use of <i>Dicranopteris pedata</i> ash as a rare earth fertilizer to <i>Ipomoea aquatica</i> Forsskal. <i>Journal of Hazardous Materials</i> , 2020, 400, 123207.	6.5	8
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